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AUGUST - 1950



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"ASBESTOS"

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EIGHTEEN IDEAS

One day not so long ago an advertising copywriter from one of the agencies serving an asbestos firm, stopped in to look at a certain book which we had mentioned in "ASBESTOS".

He wanted to get some ideas to use in the advertisements of this firm. (Incidentally advertising agencies use this office quite often as a source of information on asbestos and we are always glad to be of service).

This man sat down in our office and went over the book mentioned, apparently very thoroly, for an hour or so later when he was leaving we asked him casually if he had gotten anything worthwhile, and were amazed when he told us he had found *eighteen* ideas which he could use in the advertisements he had in mind, more than enough for a year he said.

Our office is a real source of information, and this is just one more proof of it. The more our readers use it the better we are pleased.

QUESTION FOR DISCUSSION

Here is a problem on which we would like some of our readers to express an opinion:

A Mine Producer of Chrysotile Asbestos fibre says he has heard a theory that Oil-fired rotary driers in use at many mines, which dry the wet ore for periods of up to 2 minutes at temperatures averaging 600 to 700°, do severe damage to the Chrysotile fibre by liberating the water of crystallization and so form free Magnesium Oxide. This is reputed to cause shrinkage problems in Asbestos-Cement products.

Is this true and if so what do Mine Producers do to meet the difficulty?

We would like to hear from a number of people on the subject. Will be glad to furnish the name of the inquirer if desired.

HOARDING

In the last several days we have read a number of editorials and advertisements, warning the public against hoarding.

Naturally people who remember the trouble they had in getting various items, particularly sugar and nylons, during the last war are going to try to avoid a repetition if possible to do so.

On the other hand don't suspect someone of hoarding sugar if you see her buying a larger amount than usual—she may be only planning for a big canning season. We recall during World War II that the Government forbade the holding of more than (we believe it was) 60 lbs. As a matter of fact our family normally used far more than that amount every year for preserving and began purchasing some extra each week so as to spread the purchase over a number of months. Then when the fruit was ready, we had the sugar, and no one thought of questioning the quantity as living in a country district, practically everyone did the same thing.

As to nylons it is quite probable that they won't be as short as they were at the beginning of the recent war; the production now is far larger than it was then, and it is quite reasonable to suppose that some of it will be left over for hosiery after the war needs are taken care of, if there is a major war. Also they wear better and last longer nowadays.

So buy what you need but do not stock up—overstocking leads to shortages, and shortages to higher prices.

The second plant maintenance show and conference will be held at the Auditorium, Cleveland, Ohio, January 15th to 18th inclusive. Present indications are that it will be two to three times the size of the initial show.

On exhibition at the show will be equipment and materials for air conditioning, heating, ventilating, building materials and services, maintenance tools and supplies, electrical equipment, and various other services. Information may be obtained from Clapp & Poliak, Inc., 341 Madison Ave., New York 17, N. Y.

GEOLOGY OF ASBESTOS DEPOSIT IN SOUTHERN RHODESIA.

By *Kay Badollet*.

The first samples of chrysotile asbestos from Southern Rhodesia were examined by F. P. Mennell in 1906 and 1907 at the request of Captain A. Heyman, the mining commissioner of the Victoria district. Several samples of asbestos ore brought in for examination included some from the Mashaba area of the Victoria district. The famous Gath's mine was the first located here, followed by the King mine. Very soon afterwards, the Shabani area of the Belingwe district became well known and large quantities of chrysotile asbestos were mined. The Ethel mine in the Lomagundi district became a producer of chrysotile altho its location is some distance from the large producing areas.

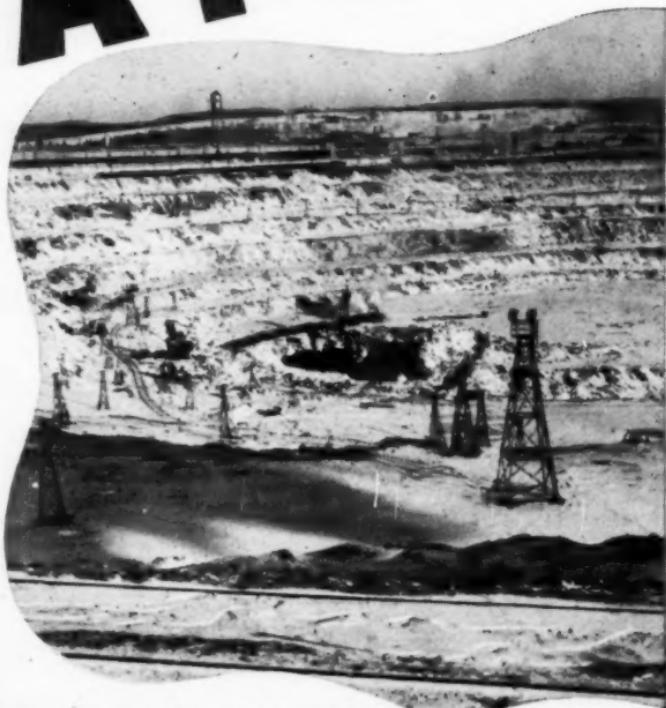
In a table of geological events, H. B. Maufe shows the geological system, kinds of rocks, earth movements and periods of denudation, and the useful minerals of Rhodesia. In this table, asbestos appears as the result of: the intrusion of the Great Dyke of Norite of the Umkondo system (Preeambrian); the intrusion of dunite altered to serpentine and tale-schist of the Frontier System (unknown age); and in the banded ironstone, phyllite and limestone interbedded with Greenstone Schists of the Basement Schists (Archaeon).

The Basement Schists, according to F. E. Keep occupy a considerable area and occur thruout the country in belts of varying widths and lengths. The igneous rocks intrusive into the Basement Schists form sills and dykes of doleritic greenstones, bodies of serpentine and tale-schist which represent plutonic intrusions of dunite, vast intrusions of granitic rocks and pink porphyritic granite intrusive into gneissic granite and into Basement Schists.

The serpentine at Mashaba contains deposits of chrome ore and asbestos which strongly suggest a relationship to the magnesium rocks of Selukwe and Shabani.

The Shabani chrysotile asbestos, as cross fibre, occurs in a mass of dunite and its hydrated derivatives, serpentine rock and tale-carbonate rock. The asbestos also occurs in serpentine derived from the ultra-basic greenstones on either side of the schist belt. F. E. Keep states that "sur-

A★F★D



The Jeffrey Open Pit Mine of J-M at Asbestos, Quebec. Measures $\frac{1}{2}$ mile in width, and 358 feet at deepest point.

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rounding the ultrabasic rocks is gneissic granite which is intrusive into dunite inclusion," and in his opinion "the serpentinization and talcifications of the latter took place during the course of the intrusion."

Slip chrysotile fibre occurs in the Pemba range in finely fractured serpentine rocks. It also occurs in the Vukwe Mountains where the fibres are parallel with the seams and associated with mineral impurities.

Two varieties of serpentine rock are derived from the dunite. One is coarse-grained, apple green in color and usually borders the edges of the asbestos fibre seams. The other variety of serpentine is fine grained, a dark bluish-green in color and composes the bulk of the fibre zones.

When talc-carbonate rock is closely associated with the serpentine, it appears that the fibre becomes brittle. The chemical analysis of these brittle fibres (according to Keep) indicates that the composition is "intermediate between serpentine and talc, that is, it is a stage in the formation of talc pseudomorphs after chrysotile asbestos."

Other alteration products of serpentine besides the talc-carbonate rocks are the talc-schist, carbonate rock, chlorite-rock, silicified serpentine and actinolite rocks.

The talc-schists and talc-carbonate schists are grey to buff in color and occasionally appear as outcrops of greenish talc or soapstone, but not in sufficient quantity for commercial value.

The silicified serpentines are usually found associated with the talc-schists and talc-carbonate rocks where the serpentine is in contact with the gneissic granite and quartz. The actinolite rock and hornblende feldspar rock occur associated with the talcose rocks at certain places near the edges of the serpentine body.

The chrysotile asbestos mines at Mashaba show an occurrence similar to those at Shabani and the geological formations are practically the same.

In the Lomagundi district, commercial deposits of high grade chrysotile asbestos occur at the Ethel mine on the western side of the Great Dyke near the Umvukwe Ranch Extension. There is some brucite closely associated with this fibre deposit as a mineral impurity. A second deposit located on the eastern side of the Great Dyke is known as Goldberg's asbestos mine and shows evidence of



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chromite and fibrous magnetite associated with the fibre. A smaller deposit of chrysotile as cross fibre is located on the Umvukwe Ranch, and a slip-fibre deposit occurs on the Lone Cow Estate in the vicinity of the large dolerite dyke cutting thru the western side of the Great Dyke. Neither deposit is commercially important.

In the Filabusi and Insiza districts a serpentine belt exists which shows chrysotile asbestos, finely divided crystals of magnetite, chromite and olivine. The serpentine of this area occurs in the Basement Schists sometimes a considerable distance from the granite contact. The asbestos deposits of this area appear in poorly defined zones in which the serpentine is cut by seams of asbestos. The serpentine rock in the asbestos area is sometimes also cut by veins of magnesite and sometimes by silica. In general the Filabusi asbestos deposits are similar to the Shabani deposits but smaller in extent. They also show the presence of talc-rock with brittle fibre and talc pseudomorphs after chrysotile.

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Note: The first of this series on the Geology of Asbestos Deposits was published in our March 1948 number and covered Vermont; the second in the series appeared in September 1948, Arizona.

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SPEAKING ABOUT ASBESTOS YARN

By Gerd M. Bloomfield¹

(This, the third and last chapter, of Mr. Bloomfield's article, deals with Carding and Spinning Processes)

In the Carding process, the next step in the production of asbestos textiles, after the spinning mix has left the Preparing Department, generally two card cylinders are employed, in form of a Breaker Card and a Finisher Card connected by broad-bend intermediate feed or a camel-back-feed. For especially fine yarns, 3-or-4-cylinder sets are used to secure the utmost possible in equalizing the fibre mix and orientating the individual fibres.

These cards are basically identical with those used in the production of worsted yarns. However, since it cannot be denied that the regular textile machinery does not do sufficient justice to the asbestos fibre, the cards used in the asbestos industry have been subjected to numerous modifications of which the selection of special card clothings is one of them. The needs of the asbestos industry have led producers of textile machinery to pay particular attention to the required modifications, resulting in the marketing of special asbestos cards. One of the most outstanding promoters in this line used to be the Ernst Gessner A. G. in Aue, Germany whose "Gessner Asbestos Cards" became the pacemakers in this specialized field. It has been found that in this connection the Tape Condenser became one of the most recommendable improvements to be used in the asbestos yarn production. The fibre stock is taken from the card and divided into individual ribbons by the small leather tapes which carry them to the Rub-Apron.

The Tape Condenser will not only give a higher production than the two-doffer-system, but the prime factor in its favor is the improvement in the quality of asbestos yarn. Furnishing a more uniform roving, resulting in an even and uniform yarn with less waste in the spinning room and eventually an increase of the loom production, the deep-grooved Tape Condenser appears

¹ Manager of Specifications and Quality Control, Union Asbestos & Rubber Co.

to be preferable to the shallow groove type. (Figures 3 and 4).

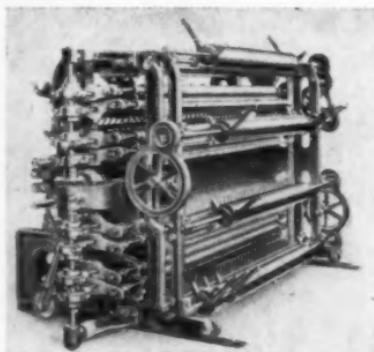


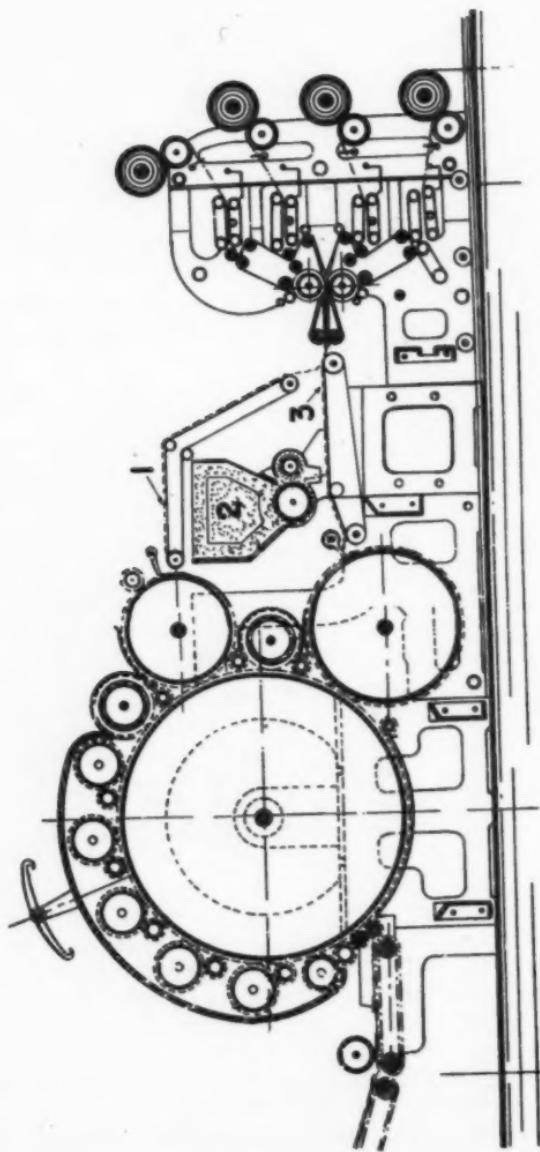
Figure 3
Tape Condenser
Front View



Figure 4
Tape Condenser
Rear View

The scarcity of regular asbestos spinning fibre in Germany brought out further modifications of the asbestos card by Gessner which may be interesting to be mentioned altho it has little practical value under normal market conditions. On this card (see Figure 5) two webs of carded cotton or rayon fibre are taken off the doffers and short asbestos fibre from feeding box 2 is scattered on top of the lower web 3. Before entering the tape condenser, the upper web 1 is placed on top of the asbestos fibre

Figure 5



layer. The blending of asbestos and organic fibre was, considering the circumstances, rather satisfactory. It was claimed that by careful handling an asbestos content of about 70% can be assured.

In the final spinning process of asbestos yarn, one of the most controversial issues has been for a long time the question of mule (selfactor) spinning versus frame spinning.

It is the contention of the writer that there is no logical place for mule spinning in the production of regular asbestos yarn, and that it will eventually become standard practice to replace mules by the less intricate and more economical spinning frames, the apparently well founded arguments for the adherence to mule spinning notwithstanding.

While an article of this type is bound to be limited in contents and size, it may offer to the reader some thoughts for discussion when **SPEAKING ABOUT ASBESTOS YARN.**

Editor's Note: A limited number of reprints of Mr. Bloomfield's article have been made up, and are available at a price of 25¢ each.

REPORT ON A.S.T.M.

The 53rd Annual Meeting of the American Society for Testing Materials held in Atlantic City June 26 to 30th was featured by a large number of technical papers and reports given in the 23 formal technical sessions, and thruout the week there were upwards of 500 meetings of the A. S. T. M. technical committees. Another interesting feature was the biennial Exhibit of Testing Apparatus and Related Equipment together with the Photographic Exhibit which featured prints, photomicrographs, and electron micrographs on engineering materials.

The registered attendance, 2134, is a new high, exceeding the previous figure of 2064 for the 1944 Annual Meeting in New York City. The total number of A. S. T. M. Standards is now about 1675.

REPORT ON RHODESIA

In an article found in the April 28th issue of The Mining Journal (London) reporting on various minerals in that Colony, are found a few paragraphs on Southern Rhodesia which may be of interest:

"Perhaps the most spectacular increases in any one mineral mined in Southern Rhodesia over the last 40 years has been asbestos. The mineral was first produced in the colony in 1908 when 55 tons were extracted from mines in the Victoria district which sold for £550. By 1950 production had risen to 79,638 tons valued at £3,986,703. . . . Southern Rhodesian asbestos is exclusively chrysotile and occurs in workable quantities in certain of the serpentine masses. Shabani remains the main producing center, followed by Mashaba.

"Smaller quantities are produced at Belingwe and Filabusi. Shabani, altho now the chief asbestos producing district, did not attract serious attention until 1916.

"Asbestos has been found in the serpentine formations of the Great Dyke, but so far, there has been only one producer in this area, the Ethel Mine in the Umvukwes. The mine proper is not in operation, but some asbestos is being recovered from the old waste dumps. The asbestos lode of the Ethel is associated with a fault cutting across the Dyke in an east and west direction. During 1948 a Government prospector was employed in examining some other similarly faulted portions of the Dyke but did not find asbestos there in payable quantities.

"The establishment of an asbestos-cement product industry in the Colony in recent years has provided a local market for asbestos, particularly the shorter grades. The Pangani Mine at Filabusi has been worked for many years for this purpose but its fibre has been sent to the Transvaal for manufacture."

• • •

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NEW INSTRUMENT TO MEASURE HEAT CONDUCTIVITY

The development of a portable instrument capable of determining the thermal conductivity of wet or dry solids within ten minutes was reported to the American Society of Heating and Ventilating Engineers at its semi-annual meeting. The brief duration of the test allows the material to be tested under unchanging moisture conditions.

The instrument, an electrically heated probe, was developed at the University of Toronto primarily to measure the thermal conductivity of moist soils but it has been applied successfully to other materials such as building materials and insulation, whose heat conducting properties are of vital concern to heating and ventilating engineers.

The instrument was developed by F. C. Hooper, lecturer in mechanical engineering, and F. R. Lepper, research student in mechanical engineering, University of Toronto. They were led to their investigation by the limitations of the guarded hot plate apparatus in determining thermal conductivity. Besides its technological limitations the hot plate is expensive, complicated, non-portable, requires skill in maintenance and operation and it sometimes requires days to reach equilibrium, giving rise to delays and high costs in testing programs.

They cited the following advantages for their probe:

It will measure with equal precision the thermal conductivity of wet or dry materials; it will permit the testing of materials such as soils in natural location, and consequently structurally undisturbed; the apparatus is compact and portable, relatively inexpensive to construct and operate; a determination can be made in a few minutes, and the operator requires only limited training; the required calculations are relatively simple; the method is suited to production control application. The precision appears adequate for engineering use.

The project is being extended at the University of Toronto.

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BUILDING CODE IN ABRIDGED FORM

A "performance type" building code prepared by the Building Officials Conference of America, Inc., has been published in abridged form for national use by communities which are principally residential in character including the usual civic, commercial and educational buildings essential to community life.

The comprehensive Basic Building Code from which the abridgment was made is now on the press.

The Building Officials Conference of America, Inc., whose membership includes building officials representing over 80% of the U. S. population and whose duty it is to enforce building codes, has spent five years in creating the comprehensive Basic Building Code and the 118-page Abridged Building Code. The National Code Committee collaborated with the building officials.

Aside from the code's suitability for adoption in all parts of the country, its most striking feature is that it employs performance requirements rather than detail specifications. The code states that "All new materials, methods of construction, devices and equipment shall be approved by the building official for use in buildings by the procedure herein provided when they are proved to be the equal of those specifically required by this code."

The code accepts all recognized standards of construction and specifications of material of authoritative technical agencies. All traditional materials and methods of construction are accredited including steel, wood and concrete and the building official can approve all new techniques and materials that meet specified standards of performance.

The Abridged Building Code in its first printed edition is now available from the Building Officials Foundation, 51 E. 42nd St., New York 17, at \$3.00 per copy, paper covered, and \$4.50 per copy, cloth covered. The Basic Building Code will be available in the printed edition about August 1st at \$5.00 per copy paper covered and \$6.50 per copy cloth covered.

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MARKET CONDITIONS

GENERAL BUSINESS

General Business, which had all the indications of going into an inflationary spiral, has become somewhat confused because of the war in Korea and subsequent results in this country.

The tax trend which was downward, has reversed itself; government expenditures, tho certainly too high previously and should have been curtailed, have become and will continue to be on an upward rather than a downward trend.

It is to be hoped that at least government will resist tying up business in endless red tape and controls. We believe that all business, and especially big business firms, are willing to co-operate to the fullest extent with Government if their efforts are not thwarted by so much control and detail that they cannot operate efficiently.

ASBESTOS—RAW MATERIAL

One of our correspondents in commenting on the market situation in asbestos crudes and fibres says that the situation in asbestos crudes and fibres is unchanged from last month, and that our comments last month fit perfectly this month's conditions "except possibly a little more so." What did we say last month? "The market in raw materials is strong and demand exceeds production in most grades. Production is continuing at maximum levels. Shingle fibres are particularly in demand. Both production and demand are expected to continue at higher levels for the balance of the year.

ASBESTOS—MANUFACTURED GOODS

Asbestos Textiles. Demand in this market is still keeping ahead of production with an increase expected because of the Korean conflict. There is a backlog of orders for cloth and tapes and requirements for yarn and roving have increased.

Brake Lining. The replacement market in brake linings is running about four to six per cent ahead of 1949 while 1950 sales are expected to exceed 1949 by about two



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or three per cent. If the present war emergency brings back allocations it will naturally have a very depressing effect on the rest of the year's business, especially in the equipment end.

Asbestos Paper. Rehandlers and equipment manufacturers are doing a better job in anticipating their requirements and demand is keeping up with production fairly well. Shipment of orders is being made promptly.

Saturated Paper shows an increased demand but no difficulty on the part of manufacturers in taking care of it.

Asbestos Millboard. While demand for this commodity has increased somewhat manufacturers have no difficulty in taking care of requirements; in fact there is some excess capacity.

Insulation. High Pressure. The situation in this market is reported by practically all manufacturers as quite favorable; increasing activity, some indication of forward buying which will probably increase. Requirements at present, however, are still below productive capacity and it is believed the Industry will be in excellent position to take care of demand induced by the present war for some time to come.

Insulation. Low Pressure. Seasonal demand is low but the usual pickup is anticipated later in the summer and in the fall. The situation is dependent to large extent on the increase or decrease in construction of houses, stores and other smaller buildings. Capacity, however, is considerably in excess of anticipated demand. Shipments are being made promptly at present.

Asbestos-Cement Products. A sudden influx of orders during the past two or three weeks have put the production of siding shingles at peak and at present there is a considerable backlog of orders on file.

The demand for roofing shingles is steady with several large Governmental projects recently taking considerable tonnage and if this continues, production facilities on this item will soon be running at full speed.

In corrugated asbestos-cement roofing and siding there has been a decided pickup in inquiries, and orders in the

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past thirty days but we doubt that production is more than two-thirds of present capacity. Flat sheets also show steady business but not up to production, altho if the Government starts buying, as in the past, for cantonments, etc., production on this item should be stepped up considerably.

As to pipes, demand for all types of this commodity is strong and backlogs of flue pipe, electrical conduit, house connection pipe, pressure pipe and sewer pipe, i.e., all types, are substantial. It appears that business should be at or near capacity production thru most of the year.

These remarks are compiled from comments received from various executives in close touch with field conditions. Comments and criticisms are welcomed.

A new motion picture to further public interest in safety and fire prevention in the home has just been released by RKO. "Danger Sleuths" tells graphically the everyday hazards in the American home, school and office and how Underwriters' Laboratories, Inc., is helping to combat these hazards. The last part of the picture shows household appliances being given severe tests by Underwriters' Laboratories so as to make life and property as free as possible from the hazards, accident and crime.

A complete line of Yugoslav building materials, including timber products, decorative stone, asbestos cement tiles and pipes, "Salonit" make, will occupy a prominent part of the Yugoslavia section at the first United States International Trade Fair in Chicago August 7th to 20th. The Yugoslav Government has taken 6,000 square feet of space in this exposition, and August 12th is being observed as Yugoslavia Day.

"Mechanical muscles" do most of the work in America. Of all the energy used in producing things, 94 per cent is provided by machines. Human muscles supply only about three per cent, and animals now furnish an equally small amount — J-M Power Specialist.

Don't learn about bad brakes by accident — Slogan on new Raybestos Sign.

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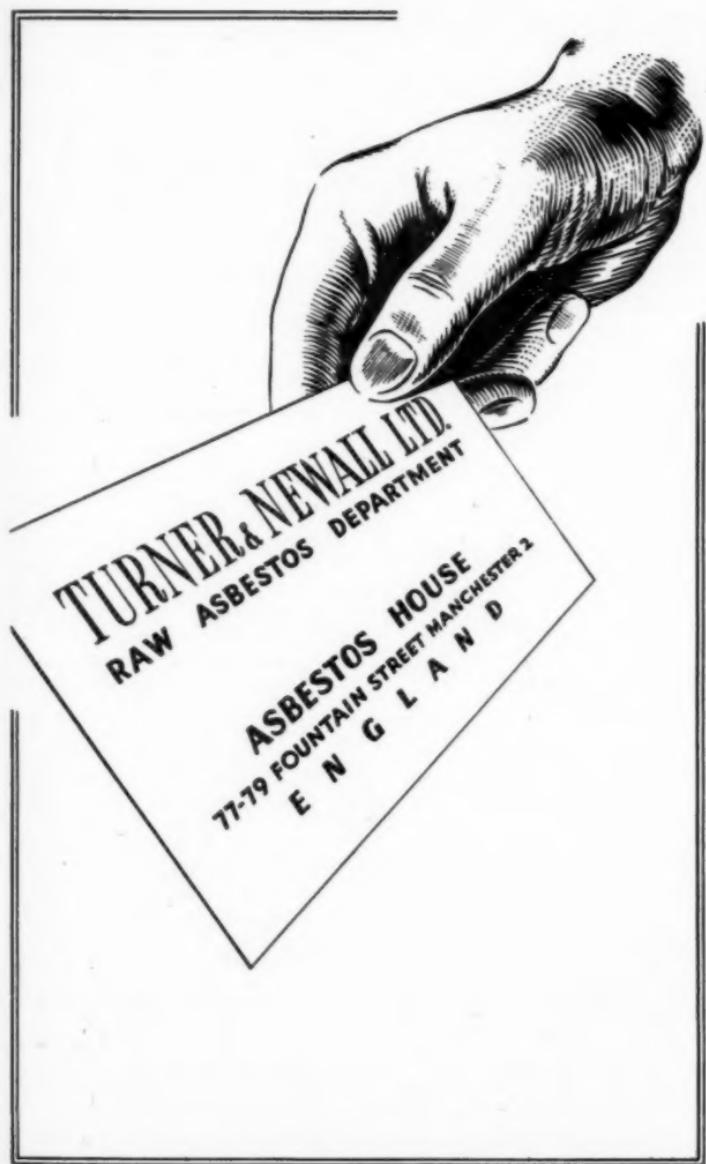
425 Fourth Avenue, New York City

WAGE RATES FOR PIPE COVERERS

The wage rates being paid Asbestos Workers (pipe coverers) in the principal cities and insulation centers of the United States at the present time are given in the tabulation below. Comparison with the list in August 1949 "ASBESTOS" (page 22) will show the changes during the year.

These rates are taken from the July 1948 issue of The Asbestos Worker (Official Quarterly Journal of The International Association of Heat and Frost Insulators and Asbestos Workers) and are believed to be up-to-date (as of July 1950) and authentic.

Akron, Ohio	\$2.50	Columbus, Ohio	2.45
Albany, N. Y.	2.40	Connecticut	2.32½
Allentown, Pa.	2.17½ + 7½c W. F.	Corpus Christi, Tex.	2.37½
Appleton, Wis.	2.10	Dayton, Ohio	2.37½
Atlantic City, N. J.	2.67½ + 7½c W. F.	Dallas, Tex.	2.37½
Albuquerque, N. M.	2.37½	Denver, Colo.	2.37½
Anchorage, Alaska	3.00	Des Moines, Ia.	2.25
Amarillo, Tex.	2.37½	Detroit, Mich.	2.62½
Atlanta, Ga.	2.25	Duluth, Minn.	2.10
Austin, Tex.	2.37½	El Paso, Tex.	2.25
Baltimore, Md.	2.25	Essex Co., N. J.	2.62½
Baton Rouge, La.	2.42½	+ 3% W. F.	
Beaumont, Tex.	2.37½	Evansville, Ind.	2.25
Billings, Mont.	2.15	Fort Wayne, Ind.	2.20
Birmingham, Ala.	2.25	Fort Worth, Tex.	2.37½
Boise, Idaho	2.12½	Freeport, Tex. (Dow Chem. Maintenance only)	2.04
Borger, Tex.	2.37½	Galveston, Tex.	2.37½
Boston, Mass.	2.45 + 9c W. F.	Grand Rapids, Mich.	2.25
Bremerton, Puget Sound		Greensboro, N. C.	2.25
Navy Yard	1.75	Greenville, S. C.	2.25
Buffalo, N. Y.	2.52½ May 1, 1951—\$2.65	Houston, Tex.	2.37½
Cedar Rapids, Ia.	2.35	Hudson Co., N. J.	2.62½
Charleston, W. Va.	2.37½	+ 3% W. F.	
Charleston, S. C. Navy Yard	1.63	Huntington, W. Va.	2.37½
Charleston, S. C. Except Navy Yard	2.25	Indianapolis, Ind.	2.50
Charlotte, N. C.	2.25	Jackson, Mich.	2.25
Chicago, Ill.	2.45 + 7½c W. F.	Jackson, Miss.	2.42½
Cincinnati, Ohio	2.35	Jacksonville, Fla.	2.25
Cleveland, Ohio	2.52½	Kalamazoo, Mich.	2.25
Columbia, S. C.	2.25	Kansas City, Mo.	2.47½
		Knoxville, Tenn.	2.37½
		Lansing, Mich.	2.25
		Laramie, Wyo.	2.37½
		Lawrenceburg, Ind. (Distillery Plant Workers only)	2.02
		Little Rock, Ark.	2.37½



Long Beach, Cal.	2.55
(Navy Yard)	1.78
Los Angeles, Cal.	2.50
Louisville, Ky.	2.32½
Madison, Wis.	2.40
Manitowoc, Wis.	2.10
Mare Island Naval Ship- yard, Vallejo, Cal.	1.78
Memphis, Tenn.	2.37½
Miami, Fla.	2.25
Milwaukee, Wis.	2.40
Minneapolis, Minn.	2.32
Mobile, Ala.	2.30
Nashville, Tenn.	2.25
New Orleans, La.	2.42½
Newport News, Va. (Except Navy Yard)	2.25
New York City	3.00
+ 6% W. F.	
New York Naval Ship Yard	1.70
Norfolk, Va. Navy Yard	1.63
Norfolk, Va. (Except Navy Yard)	2.25
Oak Ridge, Tenn. (Clinton Engr. Wks. Maintenance only)	1.80
Oklahoma City, Okla.	2.37½
Oleum, Cal. (Union Oil Maintenance only)	2.35
Omaha, Nebr.	2.35
Pascagoula, Miss.	2.30
Phila., Pa. Navy Yd.	1.69
Phila., Pa.	2.67½
+ 7½c W. F.	
Phoenix, Ariz.	2.25
Pittsburgh, Pa.	2.62½
Port Arthur, Tex.	2.37½
Portland, Ore.	2.37½
Portsmouth, Va. (Except Navy Yard)	2.25
Providence, R. I.	2.45
Richmond, Va.	2.25
Rochester, N. Y.	2.55
(\$2.65 on May 1, 1951)	
Sacramento, Cal.	2.35
Saginaw, Mich.	2.25
Salt Lake City, Utah	2.15
San Antonio, Tex.	2.37½
San Francisco, Cal.	2.35
San Francisco, Cal. (Naval Shipyard)	1.78
Savannah, Ga.	2.25
Scranton, Pa.	2.30
Seattle, Wash.	2.29½
Shreveport, La.	2.37½
Sioux City, Ia.	2.25
South Bend, Ind.	2.30
Spokane, Wash.	2.25
Springfield, Mass.	2.45
Springfield, Mo.	2.25
St. Louis, Mo.	2.57½
St. Paul, Minn.	2.32
Syracuse, N. Y.	2.40
Tacoma, Wash.	2.30
Tampa, Fla.	2.25
Texas City, Tex. (Carbide Carbon Chem. Maintenance only)	2.09
Toledo, Ohio	2.52½
Trenton, N. J.	2.67½
+ 7½c W. F.	
Tulsa, Okla.	2.37½
Washington, D. C.	2.50
+ 10c W. F.	
Wausau, Wis.	2.10
White Plains, N. Y.	2.90
Wichita, Kans.	2.25
Wilkes-Barre, Pa.	2.30
+ 7½c W. F.	
Wilmington, Del.	2.67½
+ 7½c W. F.	
Wood River, Ill. (Oil Refinery only)	2.02
York, Pa.	2.09
+ 7½c W. F.	
Youngstown, Ohio	2.50

Note: W. F. means Welfare Fund.

PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

Fiberized Asbestos

The World's Finest Fibre



DRAWER 71

GLOBE, ARIZONA

Mines and Mills in Gila Co., Arizona



PRODUCTION STATISTICS

Africa (S. Rhodesia)

(Published by Rhodesia Chamber of Mines)
Tons — 2000 lbs.

Production for March 1950	5,690.50 tons
Valued at	£326,770
Production for April 1950	5,823.93 tons
Valued at	£411,933

Africa (Swaziland)

Production for May 1950 2,750 tons (2000 lbs.)

Canada

(Department of Mines, Province of Quebec)
Tons — 2000 lbs.

Production May 1950	71,741 tons
Compared with May 1949	22,713 tons

French Morocco

(From U. S. Mineral Trade Notes June 1950)
Production for 1949 is reported as 403 metric tons (474 short tons) which was only 3 tons higher than in 1948.

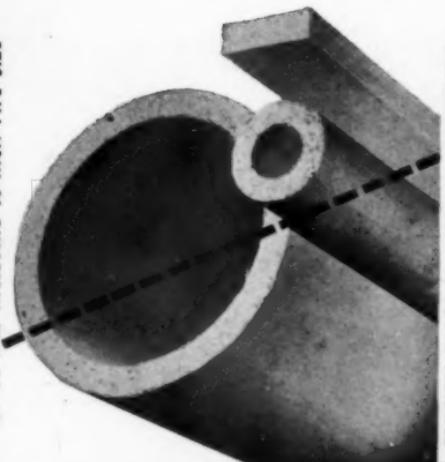
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ore reserve recently verified.*

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**PRECISION
MOLDED**

85% MAGNESEA INSULATION

"THE DEPENDABLE STANDARD - MODERNIZED"

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2,131,374 - 2,209,752 - 2,209,753 - 2,209,754

U. S. Patent Nos. 2,131,374 - 2,209,752 - 2,209,753 - 2,209,754



COMPLETE RANGE OF SIZES AND THICKNESSES
IN BLOCKS AND PIPE COVERING

THE PARAFFINE COMPANIES, INC., Insulation Division

(Formerly Plant Rubber & Asbestos Works)

475 Brannan Street, San Francisco 19, California - Engineering Service Units in Principal Cities

IMPORTS AND EXPORTS

Imports into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries

	April 1950
	Tons (2240 lbs.)
From Canada	39,291
S. Rhodesia	76
South Africa	563
Mozambique	13
United Kingdom	4
	39,947
<i>Valued at</i>	\$2,798,425

By Grades:

No Nos. 1 & 2 Crude, Chrysotile	290
Crude Other, Chrysotile, U. of S. A.	13
Crude Other, Chrysotile, Mozambique	67
Crude, Blue, U. of S. Africa	1
Crude, Blue, United Kingdom	206
Crude, Amosite, U. of S. Africa	76
Textile Fibre, Chrysotile, Canada	1,318
Textile Fibre, Chrysotile, United Kingdom	3
Shingle Fibre, Chrysotile, Canada	5,221
Paper Fibre, Chrysotile, Canada	3,898
Short Fibres, Chrysotile, Canada	28,854
	39,947

	April 1950	Value
	(Quantity Lbs.)	Value
Asbestos Yarns		
United Kingdom	3,006	\$2,706
Asbestos Packing—Fabric		
United Kingdom	115	74
Asbestos Packing—Not Fabric		
United Kingdom	2,131	1,180
Asbestos Brake Lining —Molded		
Canada	230	78
Asbestos Cement Products—Impreg		
Belgium	117,636	3,059

(Continued on page 34)

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ESTABLISHED IN 1875

Head Office

Thetford Mines, P. Q. Canada

Mines

Thetford Mines, Quebec
Black Lake, Quebec



Producers of All Grades of

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CHICAGO 4, ILL.	GRANT WILSON, INC. 141 West Jackson Boulevard
NEW YORK, N. Y.	CONNELL ASBESTOS MFG. CO. 117 Martense Street, Brooklyn 26, New York
SAN FRANCISCO, CALIF.	LIPPINCOTT CO., INC. 481 Market Street

Imports Manufactured Asbestos Goods (Continued)

	April 1950	(Quantity Lbs.)	Value
Asbestos Manufactures—Other			
Canada .....	.....	.....	3
United Kingdom .....	.....	.....	363
	123,118		\$7,463

Exports from U. S. A.

(Figures by Bureau of Census)
Unmanufactured Asbestos:

	April 1950	Tons (2240 lbs.)	Value
To United Kingdom .....	.....	8	\$ 4,285
South America .....	.....	.....	.....
Central America & Mexico .....	.....	.....	.....
Europe	1,420		319,166
Other Countries	874		205,429
	2,302		\$528,880

Manufactured Asbestos Goods:

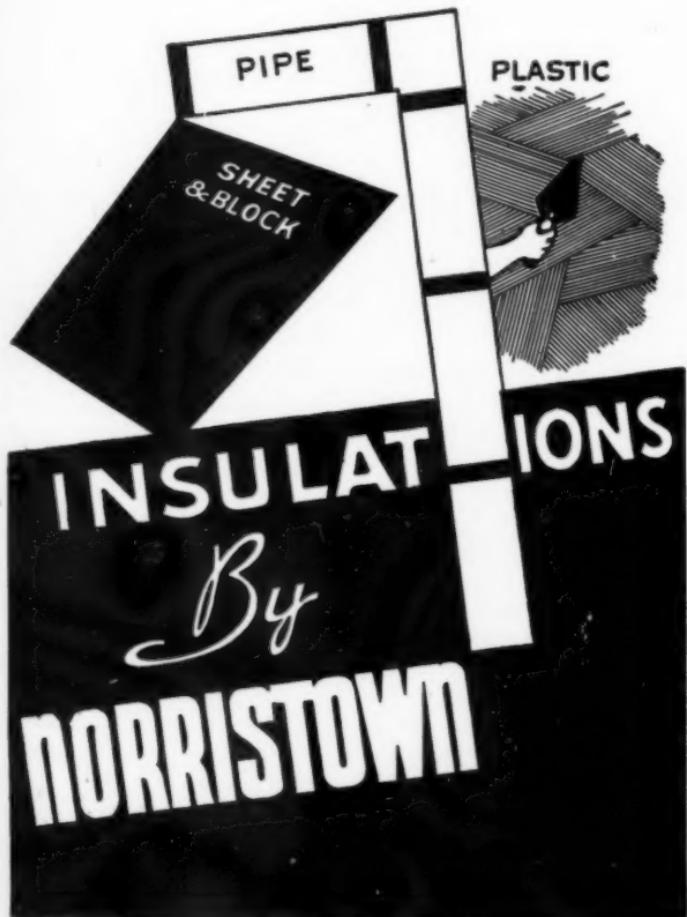
	Quantity	Value
Asbestos Pipe Covg. & Cement	Lbs. 182,178	\$ 13,893
Asbestos Textiles and Yarn	Lbs. 71,119	44,377
Asbestos Packing	Lbs. 148,843	109,770
Asbestos Brake Lng. (Mld.&S.Mld.)	Lbs. 259,968	189,354
Asbestos Brake Lng. (Woven)	L. Ft. 41,053	20,825
Asbestos Clutch Facings	No. 89,653	50,278
Asbestos Brake Blocks	Lbs. 39,458	31,694
Asbestos Construction Materials	Lbs. 2,235,322	202,228
Asbestos Manufactures—Other	12,227
	674,646	

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A. W. Gentner - Verlag, Stuttgart
Germany

The Trend Is Toward



Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos

	Tons (2000 lb.)	Value
<i>Crude</i>		
United States	5	\$ 3,465
United Kingdom	25	28,750
South America .....	...	...
Central America & Mexico .....	...	...
European Countries	18	11,024
Other Countries .....	...	...
	48	\$ 43,239
<i>Milled</i>		
United States	16,052	\$2,075,573
United Kingdom	3,499	431,407
South America	1,121	179,947
Central America & Mexico	330	37,270
European Countries	3,819	591,638
Other Countries	2,958	398,531
	27,779	\$3,714,366
<i>Shorts</i>		
United States	39,355	\$1,636,657
United Kingdom	3,362	134,216
South America	400	20,030
Central America & Mexico	200	12,760
European Countries	2,310	143,432
Other Countries	435	28,527
	46,062	\$1,957,622
<i>Grand Total — Unmanufactured Asbestos</i>	<i>73,889</i>	<i>\$5,715,227</i>
<i>Manufactured Asbestos Goods:</i>		
Brake Lining .....	...	\$ 24,633
Packing .....	...	292
Other Materials .....	...	40,125
	...	\$ 65,050

Specialists on Asbestos Problems
WILLIAM B. MILLAR & ASSOCIATES
Industrial Mineral Consultants
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Industrial users have proved the outstanding performance and economy of UNIBESTOS Pipe Insulations No. 750 and No. 1200—made of Amosite fiber. Available in a range of thicknesses that permit single-layer application for temperatures up to 750° F. and 1200° F.

UNION ASBESTOS & RUBBER COMPANY

Fibrous Products Division 1821 South 54th Avenue, Cicero 50, Illinois



AMOSITE FIBER • YARNS • TAPES • TUBINGS • FABRICS
PACKINGS • GASKETS • TAILORED-TO-FIT INSULATIONS
UNIBESTOS HIGH-TEMPERATURE PIPE INSULATION • BLOCK

Imports of Asbestos by United Kingdom

Raw Material

	June 1950 Tons (2240 lbs.)	6 mo. ended June 30th Tons (2240 lbs.)
From Union of S. Africa	1,268	7,365
Southern Rhodesia	5,502	19,956
Bechuanaland, Basutoland and Swaziland	2,018	9,390
Canada	3,469	18,182
Other Commonwealth Countries and the Irish Republic	778	1,073
Foreign Countries	38	410
	13,073	56,376

Of the imports in June 10,072 tons were of the Chrysotile variety; 3,001 of other kinds.

Of the imports in the first half of 1950, 39,706 tons were of the Chrysotile variety, 16,670 of other kinds.

Tabulation supplied by the Mining Journal Ltd. of London.

85% MAGNESIA - A Unique Use

In assembling costume jewelry at the plant of the Mode Art Jewelers Company, Inc., New York City, blocks of 85% Magnesia are used first as a mount to hold the jewelry in position for brazing and second to protect the table top from the flame of the gas torch.

The temperature of the torch flame is estimated to be 1500° F. Each worker is provided with a number of the 85% Magnesia Blocks—*From M. I. M. A. News.*

AUTOMOBILE SALES

Automobile sales during June 1950 were

Passenger Cars	720,638
Motor Trucks	135,332
Motor Coaches	606
	856,626

Total Sales for June 1949 were 593,640. For the first half of 1950 the total was 3,750,321, compared with 2,994,284 for the first half of 1949.

Source of the figures is the Automobile Manufacturers Association, New Center Building, Detroit 2, Mich.

KINLOCH ASBESTOS

(PROPRIETARY) LIMITED

THE LARGEST EXPORTERS OF CHRYSOTILE
MINED IN THE UNION OF SOUTH AFRICA

FROM

Stoltzburg, Barberton Chrysotile

and Other Smaller Mines

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JOHANNESBURG

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WAY....
of selling the
nation's
roofing,
siding and
insulation
contractors!

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New York 19, N. Y.

NEWS OF THE INDUSTRY

BIRTHDAYS

C. B. Pooler, Vice President, The Philip Carey Mfg. Co., Lockland, 15, Ohio, August 18th.
R. J. Tobin, Chairman, Tilo Roofing Co., Stratford, Conn. August 18th.
Carl W. Lemmerman, President, Homestead Corporation, Hartford, Conn., August 19th.
C. H. Carlough, President, Carolina Asbestos Co., Davidson, N. C. August 20th.
P. E. Coombes, Director and General Manager, Uxbridge Flint Brick Co., Uxbridge, Mddx., England, August 21st.
F. P. Kuchenbecker, President, Asbestos & Magnesia Materials Co., Chicago, Ill., August 23rd.
H. W. Davis, General Sales Manager, Asbestone Corporation New Orleans, La., August 25th.
Matthew Balich, President, Matthew Balich Corp., New York N. Y., August 29th.
George Robinson, Secretary, Johnson's Co., Thetford Mines, P. Q. Canada, August 30th.
A. W. Swartz, President, Linear Packing & Rubber Co., Philadelphia, Pa., August 31st.
John P. Syme, Vice President, Johns-Manville Corp., New York N. Y., September 1st.
W. D. Pardoe, Vice President, Thermoid Co., Trenton, N. J. September 8th.
Abbott Coburn, President, Globe Roofing Products Co., Inc. Whiting, Ind., September 9th.
Pierre E. Donellon, Vice President, Charge of Construction, Tilo Roofing Co., Stratford, Conn., September 9th.
K. R. MacDonald, Director of Purchases, The Ruberoid Co. New York City, September 10th.
J. Gillmur Tyson, Jr., President, Consolidated Asbestos Corp. Sellersville, Pa., September 14th.
R. J. Berry, President, Standard Asbestos Mfg. Co., Cleveland, Ohio, September 15th.

To all of these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

ASBESTOS MINERALS CORP.

To study Fiberizing Amosite and Blue

Vincent Landers, President of Asbestos Minerals Corporation, of Westfield, N. J., is flying to England on August 19th to investigate and study machinery and equipment for fiberizing Amosite and Cape Blue Asbestos.

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

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ROVINGS	POWDER	CLOTHS
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Unexcelled for use in ASBESTOS CEMENT PIPES		

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This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia insulation

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TELEPHONE—VANDERBILT 6-1477

**DUDLEY T. COLTON APPOINTED
GENERAL MANAGER J-M INTERNATIONAL DIVISION.**

Appointment of Dudley T. Colton as General Manager of the International Division of Johns-Manville Corporation has been announced; Mr. Colton was also made Vice President of Johns-Manville International Corporation.

Mr. Colton, who has been Acting General Manager of the Division since March 1949, succeeds E. S. Crosby, who is on leave of absence until December 31, 1950 at which time he will retire.



Mr. Colton was born in Galesburg, Ill., was graduated cum laude from Harvard University in 1928 with a degree in Civil Engineering. Prior to joining Johns-Manville as a Research Engineer in 1933, he was associated with the U. S. Gypsum Co. in that company's research and engineering departments.

He was made section head and division manager at the Johns-Manville Research Center in Manville, N. J., before coming to the company's headquarters in New York in October 1948, as Assistant to the Vice President and Chairman of the Board.

Mr. Colton is a member of the Non-Metallic Minerals Industry Advisory Committee of the Munitions Advisory Board, the National Republican and Harvard Clubs, Harvard Engineering Society and Tau Beta Pi, honorary engineering fraternity.

R. R. GALLOWAY
Division Sales Manager Paraffine

Russell R. Galloway has been appointed by The Paraffine Companies, Inc., as Sales Manager, Building Materials Division.

Mr. Galloway brings twenty-eight years of solid experience in the building materials industry into his new position. Starting as a salesman with one of the largest roofing and gypsum manufacturers in the country, he eventually attained the post of vice president in charge of sales with jurisdiction over the entire United States. Subsequently he served as president of an important asbestos-cement products manufacturer.

P. D. BEANER JOINS
Asbestos & Magnesia Materials Co.

The appointment of P. D. Beaner as Sales Engineer for Asbestos & Magnesia Materials Co., has been announced by F. P. Kuchenbecker, President of the company.

Mr. Beaner recently retired from Johns-Manville Sales Corporation; he has been active in the industrial field for over 35 years. Mr. Beaner will devote his efforts in an advisory capacity in co-operation with Architects, Engineers, Contractors and Industrial Corporations. He will be in a position to furnish specifications on insulation or refractory problems.

ACE ASBESTOS MANUFACTURING CO.



Importers, Exporters, Processors of
Asbestos Fibres of All Varieties

of

RAW ASBESTOS

for

Every Use



CHRYSOTILE
AMOSITE
AMPHIBOLE FIBRES

originating in

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CANADA

RUSSIA

CHINA

INDIA

RHODESIA

SOUTH AFRICA



Large Capacity Fiberizing and
Grading Plant

451 Communipaw Ave.

Jersey City, N. J.

JOHNS-MANVILLE**Report for Second Quarter**

Consolidated earnings of Johns-Manville Corporation and subsidiary companies for the second quarter of 1950 were \$6,172,136, compared with \$2,882,169 for the corresponding period last year.

Sales for the second quarter of 1950 amounted to \$48,974,526, compared with \$38,158,249 for the second quarter of 1949.

Earnings per share of common stock were \$1.97 compared with 97c for the second quarter last year when a strike was in progress at the company's mines, mill and plant at Asbestos, Quebec.

Income taxes for the second quarter were \$2,778,455 compared with \$1,860,732 last year.

Total sales to date for this year were \$88,493,577 and earnings were \$10,100,687, compared with sales of \$76,180,959 and earnings of \$5,765,600 for the first six months in 1949.

CELLACTITE & BRITISH URALITE LIMITED**Directors' Report and Annual Meeting**

The Report of the Directors of Cellactite & British Uralite Limited on July 25, 1950, showed a net profit for the year of £40,510. The Directors recommended a dividend of 15% less tax amounting to £7,425.

The meeting was to consider increasing the capital of the Company to £250,000 by the creation of 1,500,000 additional Ordinary Shares of 2/-each, ranking both as regards dividend and return of capital pari passu with the existing Ordinary Shares of the Company.

CAREY SEMI-ANNUAL REPORT

Report for the six months ended June 30, 1950 was issued on July 27th by the Philip Carey Mfg. Company, and gives the following figures:

Sales 1950	\$20,976,915
Compared with same period in 1949	18,117,261
Net earnings after income taxes—1950	1,399,509
Compared with same period in 1949	1,042,510
Earnings per common share	1.69
Compared with same period in 1949	1.25

ARTICLE

"Use the Rifle Approach in Hunting Roofing Sales" is the title of an article by Chester C. Kelsey, Secretary of the Asbestos-Cement Products Association, in the July issue of "Roofing, Siding and Insulation."

AIR POLLUTION SYMPOSIUM AVAILABLE

An illustrated volume covering twenty-one significant technical papers given at the First National Air Pollution Symposium is available from the Public Relations Office of Stanford Research Institute, Stanford, California. The price is \$2.50.

ASBESTOS FIBRE

All Various Grades

A NEW MODERN ASBESTOS PLANT
WITH REVOLUTIONARY EQUIPMENT

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fibres for any type of work. Experience with
many industries shows better results than using
the standard numbers.



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**SAFETY TROPHY PRESENTED TO
CANADIAN JOHNS-MANVILLE**

The John T. Ryan Regional Safety Trophy was recently presented to Canadian Johns-Manville for the safety record it established at the mine at Asbestos, Que., in 1949.

The trophy consisted of a bronze plaque and was presented by A. O. DuFresne, Deputy Minister of the Department of Mines of the Province of Quebec.

CYPRUS

Crude asbestos imported for processing and reexport by Cyprus has been authorized duty-free entry in Cyprus by a notice published in a Supplement to the Cyprus Gazette of May 11, 1950. The notice, however, provides that on re-exportation, the asbestos would be subject to an export tax of 3% ad valorem, f.o.b. port of shipment. The effective date of the new regulation was made retroactive to January 1, 1949. — U. S. Foreign Commerce Weekly.

U. S. RUBBER SEMI-ANNUAL REPORT.

Net earnings of the United States Rubber Co. for the first six months of 1950 were \$8,848,757, compared with \$6,655,010 in the corresponding period of 1949.

Net sales for the half were \$291,278,706, compared with \$258,302,914 in 1949.

Of course Asbestos Materials are a very small portion of United States Rubber Co. activities.

ARTICLE BY W. E. SINCLAIR

"The Asbestos Boom" is the title of a short article in the June 24th issue of The South African Mining and Engineering Journal, written by W. E. Sinclair, M. I. M. M.

FRANK G. RUGGLES & CO.

Purchases Business of the late Seymour A. Goodman

Frank G. Ruggles & Co., dealers of Steel and Metal, at 30 Church Street, New York 7, N. Y., recently purchased the Goodwill, etc., of the late Seymour A. Goodman, a dealer in waste asbestos both domestic and export. Mr. Ruggles has been connected with the Asbestos Business for many years.

WASTE ASBESTOS
FRANK G. RUGGLES & CO.
30 Church St., New York 7, N. Y.
Successor to Seymour A. Goodman



For Asbestos Packings
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B

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THE TWELVE ESTIMATING TABLES

Our book list (see page 50) mentions Twelve Estimating Tables, with Chart, convenient in figuring flange fittings and other areas, \$1.00 per set.

These tables have been found very useful by estimators in figuring areas, and very likely many would like to know exactly what the tables cover, and order them before the fall work begins. Following is the list:

Sq. Ft. Areas of Pipe Covering.

Mean Sq. Ft. Areas Standard Screwed Fittings.

Mean Area Standard Weight Flanged Fittings.

Standard Weight Flange Areas, Permanent Type.

Standard Weight Flange Areas, Removable Type.

Figuring Hair Felt, 1", 1½", 2".

Anti-Frost Insulation.

Cork Pipe Covering, Outside Area in Sq. Ft.

Ice Water Thick Cork Moulded Fittings Screwed
Outside Area in Sq. Ft.

Brine Thickness Cork Molded Fittings, Screwed, Out-
side Area in Sq. Ft.

Special Thickness Cork Moulded Fittings, Screwed
Outside Area in Sq. Ft.

Ducts and Flue Perimeters.

The chart gives an easy way to figure Curved
Cylindrical Surfaces.

The tables are printed on paper which will wear well
under handling. Orders can be filled immediately upon
receipt.

BUILDING

Construction awards in June held almost level with the high rate in May, according to F. W. Dodge Corporation, in reporting a decline of a fraction of one per cent from the May figure.

The June total for the 37 states east of the Rocky Mountains was \$1,345,463,000, compared with \$1,347,603,000 in May.

Residential awards in June totaled \$628,051,000; non-residential were \$443,996,000.

For the first six months of 1950 construction awards totaled \$6,854,148,000; floor space totalled 622,635,000 for the same period.

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AFTERTHOUGHTS

¶ Our June issue, page 14, told the story of Corrugated Asbestos-Cement used on the Blackham Coliseum on the Louisiana Institute campus. We omitted the location—it is Lafayette, La.

We are now told that the Corrugated used on the huge dome was made and furnished by the Asbeston Corporation of New Orleans, La.

¶ Be sure to go over our Birthday list, page 40 and tell us of any corrections which should be made in it. It is almost impossible to keep this list correct and up to date without your help.

¶ In our July number we mentioned the sloop "Asbestos" owned by R. E. Hebert, President of R. E. Hebert & Co., Rochester, N. Y. We beg Mr. Hebert's pardon for misspelling his name. It is "Hebert" not "Herbert" as we had it.

¶ A most interesting and informative "Summary report" on "Acoustic Materials" has been received from The National Bureau of Standards. As it is unobtainable from that Bureau in either mimeographed or printed form we have decided to reprint in "ASBESTOS". It will appear soon, but in two or three parts as it is quite lengthy.

¶ In our July issue, page 26, Mr. Kempthorne gave a most interesting account of his world trip which began with an assignment in Hiroshima to set up the machines and instruct the natives on the application of his Acoustical material—Spraykote. Note the correct spelling. Unfortunately the article spelled the word with a "c" instead of a "k".

As the word is a trademark this correction should be carefully noted and made in any copies of our July number which are kept in reference files.

¶ Money will buy a fine dog but only love will make him wag his tail.

• • •

Status quo — this mess we're in.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C. Copies of patents can be obtained by sending 25c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Sealing Device. No. 2,506,447. Granted on May 2nd, 1950 to H. W. Greiner, Geneva, N. Y., assignor to Garlock Packing Co., Palmyra, N. Y. Application April 4, 1947. Serial No. 739,326.

Composition Board. No. 2,514,021. Granted on July 4, 1950 to Herbert Abraham, New York City, Assignor to The Ruberoid Co., New York City. Application March 13, 1948. Serial No. 14,701.

Insulating Material. No. 2,514,170. Granted on July 4, 1950 to Robinson F. Walter, Manheim, Pa., and William J. Joyce, Jr., Lancaster, Pa., assignors to Raybestos-Manhattan, Inc., Passaic, N. J. Application October 12, 1945. Serial No. 621,992.

BOOK LIST

The Asbestos Factbook, 16 pages. Information in compact form on origin, facts, locations, uses, analyses, qualities, 10c per copy.

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages. 25c per copy.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25 per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages. 25c per copy.

Processing Asbestos Fibres. 8 pages. (Reprint) 25c per copy

Tests for Cotton Content. 4 pages (Reprint) Describing several methods of testing asbestos textile for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each

Brake Linings of Various Types, By R. T. Halstead. Reprint (12 pages) from August, September and October 1949 "ASBESTOS". Price 25c per copy.

Asbestos—The Silk of the Mineral Kingdom, by Oliver Bowles. 40 pages about asbestos, from mine to finished products, in plain language, illustrated, 25c a copy.

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas. \$1.00 per set.

Manual of Unit Prices. For figuring pipe covering and blocks. 75c per single copy postpaid. Discount in quantities of 6 or more, postage billed. Note increase in price.

Order any of the above from "ASBESTOS", 808 Western Saving Fund Bldg., Philadelphia 7, Pa. Postage stamps acceptable for amounts less than \$1.00.

CURRENT RANGE OF PRICE

As of August 10, 1950

Canada—

	Per Ton (2000 lbs.) f.o.b. Mir
Group No. 1 (Crude No. 1)	\$960.00 to \$1,050.00
Group No. 2 Crude No. 2; Crude	
Run-of-Mine and Sundry	400.00 to 550.00
Group No. 3 (Spinning Fibre)	232.00 to 425.00
Group No. 4 (Shingle Fibre)	95.50 to 141.00
Group No. 5 (Paper Fibre)	78.50 to 88.00
Group No. 6 (Waste, Stucco or Plaster)	58.00
Group No. 7 (Refuse or Shorts)	28.00 to 52.00

Vermont—

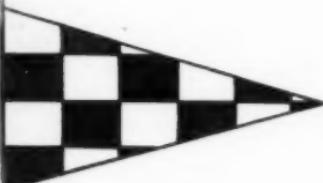
	Per Ton of 2000 lbs. f.o.b Hyde Park or Morrisville, V.
Group No. 4 (Shingle Fibre)	\$111.50 to \$124.00
Group No. 5 (Paper Fibre)	79.00 to 96.50
Group No. 6 (Waste, Stucco or Plaster)	59.00
Group No. 7 (Refuse or Shorts)	28.50 to 52.50

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee as to their correctness).

July 1950

	Par	Low	High	Last
Armstrong Cork (Com.)	np	39 1/2	50 1/2	41 1/2
Armstrong Cork (Pfd.)	np	100 1/2	103 1/2	100 1/2
Armstrong Cork (Conv. Pfd)	np	107 1/2	115 1/2	107 1/2
Asb. Corp. (Com.)	np	27 1/2	34 1/4	29 1/2
Asb. Mfg. Co. (Com.)	1	1	1 1/4	1 1/4
Carey (Com.)	10	14	17 1/2	14 1/2
Celotex (Com.)	np	13 1/2	17 1/2	14 1/2
Celotex (Pfd.)	20	15 1/2	16 1/2	16
Certainteed (Com.)	1	11 1/2	16 1/2	12 1/2
Flintkote (Com.)	np	22 1/2	29	24
Flintkote (Pfd.)	np	105	107 1/2	107 1/2
Johns-Manville (Com.)	np	36 1/2	48 1/2	40
Paraffine (Com.)	np	13 1/2	16 1/2	14 1/2
Paraffine (Pfd.)	100	98 1/2	100 1/2	98 1/2
Ray-Man. (Com.)	np	27 1/2	32	31 1/2
Ruberoid (Com.)	np	43 1/2	55 1/2	46 1/2
Thermoid (Com.)	1	5 1/2	7	6 1/2
Thermoid (Pfd.)	50	38 1/2	40	39 1/2
Union Asbestos & Rub. (Com.)	5	10 1/2	12 1/2	12 1/2
United Asb. (Com.)	1	40c	56c	42c
U. S. Gypsum (Com.)	20	90 1/2	128	96 1/2
U. S. Gypsum (Pfd.)	100	181	185 1/2	184
U. S. Rubber (Com.)	10	38 1/2	45 1/2	45 1/2
U. S. Rubber (Pfd.)	100	129 1/2	137	137



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In every organization there comes a time when new ideas must be developed into finished products with the greatest possible speed. The R/M research and development departments stand ready at all times to help in the creating and testing of new products in which asbestos plays a part. For more than half a century this organization has pioneered in putting asbestos to work in new ways.

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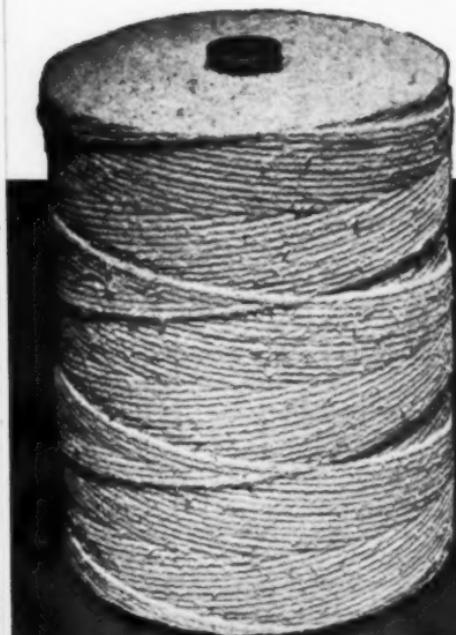
Asbestos Textile Division • Manheim, Pa.

Factories: Manheim, Pa.; No. Charleston, S.C.



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Brake Linings • Brake Blocks • Clutch Facings • Fan Belts • Radiator Hose
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CARDED FIBRE	•	LISTING TAPE				
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